

### Abstract

An additive for cement comprising the following component (A) is provided. (A) A polycarboxylic acid series esterified copolymer obtained by esterifying a part or whole of carboxylic acid groups of a polycarboxylic acid series copolymer having a polyoxyalkylene chain with a derivative of an alcohol having a polyoxyalkylene chain and represented by the following formula (1) ( $R^1$  represents a group of a heterocyclic ring having a nitrogen atom or a group represented by the following formula (2).  $R^2$  and  $R^3$  represent hydrocarbon groups having 1 to 6 carbon atom(s), respectively and independently. "AO" represents an oxyalkylene group having 2 to 4 carbon atoms. "n1" represents an average mole number of addition of the oxyalkylene group and 1 to 8.).

